

GOVERNMENT TO STUDY SHELTERBELTS FOR BENEFIT OF FARMING INTERESTS

Special to The Tribune.

WASHINGTON, June 20.—Uncle Sam's tree planting and farm experts have just undertaken a practical and scientific study of the use and effect of timber windbreaks and shelterbelts in the agricultural regions of fourteen Western States. This is the first time in this country that a study of this much discussed question has been undertaken over a wide region under one plan, for the purpose of collecting data for the benefit of the agriculturists who are developing the Western plains. At present windbreaks are planted haphazard, one kind here, another there. If one kind is better than another, the government experts think that fact ought to be known, and it is believed that the study about to be undertaken will settle the question once for all. It will at least collect such facts never before brought together. The work will be done by the United States forest service. In some States the agricultural experiment stations will co-operate in the studies, and in these cases the forest service will provide the necessary apparatus, and the other expenses will be shared half and half by the government and experiment stations. The investigations will be taken up in five States this year and extended to the other nine as rapidly as the investigations are completed. Four of the States in which the study will be made this year are Nebraska, Colorado, Oklahoma and Kansas. The fifth will be either Minnesota, North Dakota or Iowa. Ultimately the investigations will cover Minnesota, North Dakota, South Dakota, Nebraska, Iowa, Kansas, Oklahoma, Colorado, Texas, New Mexico, Utah, California, Washington and Idaho.

The certain ruin that hot winds sometimes bring to growing crops in parts of the West is well known. Blowing strongly across the unobstructed plains these winds may in a few days blast all hope of even a partial harvest. This is particularly in the lower portion of the central plains region, and in years of unusually low rainfall. Here the winds most to be feared blow from the southwest or south. In the northern prairie region the farmer is exposed to the hot "chinook" wind which sweeps down from the Canadian mountains. This either dries out growing crops or, if it prevails before the danger of killing frosts is past, causes loss through urging vegetation forward prematurely. Cold winter winds also do great injury to crops, make the climate more severe for stock and men, and interfere with an even covering of snow upon the ground. This is true from Canada almost to the Gulf. In southern California, dry winds from the north and northeast sweep down from the Mohave desert with destructive results. Coming in June, these winds may reduce the wheat yield of unprotected fields to almost nothing. Windbreaks of eucalyptus and Monterey cypress, now in such common use to protect orange groves and

orchards, long ago convinced possessors of highly valuable irrigated land of the value of tree planting for protection purposes.

But there are two sides to the wind-break question. Some prairie farmers declare positively that belts of orange groves, for instance, are a "nuisance." Others cite figures to show positive benefit. Mr. Morris Thompson, who lives near Downs, Kan., gives his yield of corn from a field protected on the south by a row of tall cottonwoods as six bushels per acre more than in places where there is no protection. About fifteen acres are benefited in this way. It is highly improbable that the wind-break occupies sufficient land to offset this benefit. An Illinois farmer sums up his observations upon this matter thus: "My experience is that now, in cold and stormy winters, wheat protected by timber belts yields full crops, while fields not protected yield only one-third of a crop. Twenty-five or thirty years ago we never had any wheat killed by winter frosts, and every year a full crop of peaches, which is now rare. At that time we had plenty of timber around our fields and orchards, now cleared away."

The forest service proposes to find out just when and how much wind-breaks increase the yield of crops. To carry out the plans, much technical work will be necessary. Instruments will be used to measure heat and cold, moisture and dryness both above and below ground; to register the force of the wind near the wind breaks and some distance away; to measure light intensity, and take note of the effects of shade; to register frost at different distances from the trees; and to keep account of the effect of the wind-breaks on the snow which covers the ground to leeward in winter. Many other measurements and tests will be made, and elaborate data will be collected by experts who will have charge of the study. Many disputed questions will thus be settled and the data gathered will be placed at the disposal of the farmers who desire it. Doubtless rows of trees between fields sometimes do more harm than good, by causing shade and abstracting water from the soil. Trees may also increase the danger from frost, since the movement of the air lessens that danger. The forest service will study all sorts of conditions, including the relative value of windbreaks, consisting of a single row of trees, and shelterbelts, made up of a number of such rows. A windbreak is usually planted for protection along a shelterbelt for both protection and the growing of timber.

Corn will be the crop studied behind the wind-break this year. Trustworthy conclusions can not be obtained by comparing results from different crops. Each crop makes its own demand upon the soil, so that what would destroy one might do little harm to another. Corn is a particularly good crop to experiment with because it is easily injured by hot, dry winds, will not stand shading, and is very sensitive to frost.

The instruments and apparatus for each State will be read weekly by persons assigned to that duty by the agricultural experiment stations in the respective States. The whole work will be in charge of an expert for the forest service at Washington, who will be assisted this summer by three or four persons, also from the forest service, who will study general conditions in the States under investigation, in regard to the effects of wind-breaks on crops. The work will continue until crops are gathered next fall, when the actual yield of sheltered fields will be measured, and results compared with nearby unprotected fields. Some of the observations will continue through the winter.

It is expected that the results will be published both by the forest service and by the experiment stations which co-operate in carrying out the work.

S. D. Evans, Undertaker and Embalmer, has removed to new location, 48 South State.



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Follows the customer who patronizes us. There's the COLOR, QUALITY and FINISH for the most exacting customer in each package. A direct result of laundering with SOFT WATER.

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"THE LAUNDRY OF QUALITY"
Both Phones 192 168 Main St.

An Array of Bargains Too Tempting to Pass Without an Investigation!

Abundance of values that are unrivaled and unapproached by any other house in this hemisphere. We are determined upon making tomorrow a banner day. Something extraordinary had to be done to create the buying we had in mind, and we have done it. We have taken good staple merchandise and cut the life out of it. We have created special sales that should prove of interest to every economical person in or near Salt Lake. There never was a time when bargains were thicker or money went farther than this week at Auerbach's.

MONDAY! Positively "the" Wash Goods Opportunity of the Year. 20c and 25c Printed Lawns and Swisses The prettiest and smartest styles of the season—more than a hundred varieties—dots, figures, checks, stripes and plaids—large and small—neat and striking effects. Light, dark and medium colors. Limit 12 yards to a customer. 9 1/2c	MONDAY! \$1 Hemstitched White Linen Dresser Scarfs and Squares Size 18x45, 18x36 and 30x30. Special for one day each— 59c	MONDAY! Our Best \$1.50 Satin finished, silver bleached German Table Linen, 68 Inches Wide— Pure flax, in calla lilies, poppy and scroll designs. Limit 6 yards to a customer at a yard— 88c	<p style="text-align: center;">ESTABLISHED 1864</p> <p style="text-align: center;">F. Auerbach & Co.</p> <p style="text-align: center;">ONE PRICE TO ALL NEVER UNDERSOLD</p>	MONDAY! \$6.00 Marseilles Bed Spreads White and colored, hemmed and fringed, square and cut corners. Extra large sizes, one to a customer at each— \$3.30	MONDAY! The 30c Arnold Washable Scotch Cloths The most attractive and serviceable wash fabrics for ladies and children's wear, in an endless variety of designs and colorings. 22 inches wide. Limit 12 yards to a customer. At a yard— 12 1/2c	MONDAY! Torchon Laces Up to 12c values on sale at... 5c 150 pieces Torchon lace, edging and insertion to match, qualities and widths, worth up to 12c a yard, go on sale Monday only. 5c	
MONDAY! Up to \$1.50 White Embroidered Skirting Flannels Hemstitched, scalloped and cut edges, all yard wide. 50 different designs. Special for one day at a yard— 88c	MONDAY! Our Leader—15c and 16 1/2c Hemmed Pillow Cases Size 42x36 and 45x36. Limit 6 to a customer at a yard— 10c	MONDAY! 12 1/2c Wash Beiges Double width, in checks and plaids, grays and brown predominating. Limit 12 yards to a customer at a yard— 5c	<p style="text-align: center;">Millinery</p> <p style="text-align: center;">Three wonderful values for this week; don't fail to get one of them. It is the bargain event of the season.</p> <p>\$18.00 Hats at... \$8.75 \$14.00 Hats at... \$7.50 \$8.50 Hats at... \$4.75</p>	<p style="text-align: center;">LINENS FOR THE HOUSEHOLD</p> <p style="text-align: center;">Are priced fully one-third less than elsewhere for this week.</p> <p>15c checked Linen Glass Towelling, 18 inches wide. This week per yard... 9c New York Mills Bleached Bed Sheet, 7-4 wide; regular 25c; this week a yard... 22c 40c Hemmed Turkish Bath Towels, 13 yards long; go this week at each... 23c Scalloped Hemmed Huck Towels, value 45c. Go this week at each... 27c Scalloped Fine Damask Lunch Cloths, with drawn work centers, round and square, 30-inch size, value \$1.50. Go this week at each... 79c</p>	MONDAY! Ladies' Vests, 12 1/2c Best 20c grade... Ladies' fine ribbed pure white, low neck, sleeveless vests, all sizes, with loop trimmed tape, drawn neck and arm holes, regular 20c quality, on sale at— 12 1/2c	MONDAY! Ladies' Skirts, \$1.90 Values worth \$3.00, \$3.50 and \$4.00, on sale at... Beautiful white skirts in a variety of nobby embroidery or lace trimmed styles, all lengths, up to \$1.00 value on sale here Monday only, at... \$1.90	MONDAY! Night Gowns, \$1.25 The Best and prettiest \$2.00 grades... Ladies' gowns, great variety to choose from, in high neck and long sleeve, or low neck and short sleeve styles, all \$2.00 grades, on sale at... \$1.25

A GREAT Hosiery Sale

Offering by far the greatest values of the season. All Hosiery offered in this sale is of dependable qualities, the price reductions are extraordinary; buy your supply for the entire summer, for we cannot expect to equal these values again.

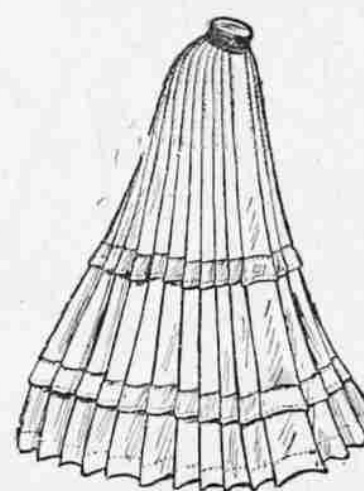
- Infants' fine Silkette Hose. In fast black or white, the best 25c Stocking in the market, on sale at... **19c**
- Children's fine Imported Lace Hose, in fast black, white, pink and blue, all sizes, best 50c grade, on sale at... **35c**
- Ladies' fast black, tan or pure white extra fine quality lace Hose, all sizes, best 50c values, on sale at... **50c**
- Ladies' fast black or pure white fine lace thread or Maco cotton Hose, in gauze or medium weight, all sizes, on sale at... **33c**



Bargains in High-Class Apparel

Each Value Mentioned Represents An Astonishing Money - Saving

- \$35 AN D540 SILK DRESSES AND JUMPERS AT \$24.75.
Unheard of values are shown here among this collection of exquisite silk dresses and jumpers, that must be seen to be appreciated. Pique, Pique de Cigne, Poulards and Taffetas included. Worth fully \$35 and \$40. Specially priced this week at... **\$24.75**
- \$25 AN D530 SILK DRESSES AND JUMPERS AT \$16.95.
Included in this group are some very handsome effects, all this season's styles and shades, well tailored throughout, some with lace sleeves and yokes. Worth fully \$25 and \$30. Specially priced this week at... **\$16.95**
- \$15 RAJAH LINEN TAILORED SUITS \$11.00.
White Rajah Linen, handsomely trimmed with light blue rep, makes the loveliest tailored wash suit imaginable. \$15.00. Specially priced this week at... **\$11.00**
- \$12.50 REP TAILORED SUITS AT \$9.00.
Pretty tailor made suits of Rep, in white and light blue; coats are effectively made with the new sleeve and fastens with two buttons, skirt. Well worth \$12.50. Specially priced this week at... **\$9.00**
- UP TO \$20.00 DRESS SKIRTS, \$8.75.
Ladies' dress skirts all this season's goods, made in the latest models and newest shades, for less than the cost of material. Worth up to \$20.00, specially priced this week at... **\$8.75**
- MONDAY ONLY**
\$1.75 AND \$2.00 LAWN WAISTS AT \$1.23.
Another large shipment of those handsome lawn waists, embracing both embroidered and tailor made with stiff collar and cuff. They are worth fully \$1.75 and \$2.00. Monday only they'll go at... **\$1.23**



NOTICE THESE CLOTHING AND FURNISHING BARGAINS

The best values yet! the best qualities to be had in Salt Lake for the money. The prices tell of Big Savings.

- \$4.00 Boys' Suits \$32.49**
The finest lot of Suits ever offered for the price. Light, medium and dark chevrons and worsteds, good substantial fabrics, good tailoring, splendid values, special... **\$32.49**
- \$8.00 Boys' Suits \$5.45**
Suits with character, the best of makes, the best of fabrics, the handsomest patterns, every suit is a model of perfection. Special sale price... **\$5.45**
- Men's Underwear**
Balbriggan and Jersey Ribber Shirts and Drawers, well made, fast colors, regular lengths, all sizes, regular 50c values; special... **35c**
- Fine French Balbriggan Shirts and Drawers**
In light summer weights, either plain colors or fancy combination, all sizes, values up to 45c; special at... **45c**

Do Your Windows Need New Curtains?

If they do you are surely to be deeply interested in the savings chronicled below. Their equal will not be found at any other store in all Salt Lake.

- \$1.50 tucked ruffled white Swiss Curtains, of best quality plain Swiss, with five tucks in insertion effect and full Swiss ruffle, 2 yards long and 35 inches wide, go this week, per pair... **69c**
- \$2.50 Battenberg ruffled white Net Curtains, made of good quality imported French net and trimmed with neat Battenberg edge and insertion, full ruffle, strongly sewed; 2 1/2 and 3-yard lengths; go this week, per pair... **\$1.39**
- \$4.50 Cluny Curtains, white and Arabian, 2 1/2 and 3-yard lengths; a new style; go this week, per pair... **\$2.95**
- \$9.00 white Brussels Net and Irish Point Curtains, 4 novel designs, go this week, per pair... **\$5.20**

Bargain News from the Wash Goods and White Goods Depts

We're ready again with a list of Wash Goods and White Goods Bargains. Monday's selling is quite sure to eclipse any of the year. These Low Prices Make it Possible.

- 25c Natural Linen color Blouse Linen, this week per yard... **16c**
- 35c Imported colored Madras Waistings, double fold, exclusive designs. This week per yard... **22c**
- 50c White Shirt Waist Linen, 36 inches wide. This week a yard... **33c**
- 60c White Persian Lawn, 48 inches wide. This week per yard... **36c**
- 90c White Persian Lawn, 48 inches wide. This week per yard... **58c**
- The \$1.00 Colored Dress Linens in the new brown, gray and green; the best French make, 48 inches wide. This week per yard... **67c**

FOUR OF THE BEST Shoe Bargains EVER OFFERED

Every One a Trade-Winner of Tremendous Merit

- CHILDREN'S FINE KID, ONE-STRAP SLIPPERS—With patent tips, sizes 5 to 8... **90c**
- LADIES' BLACK KID JULIETS—With rubber heels and patent tips, sizes 2 to 8, value \$2.00, at pair... **\$1.39**
- LADIES' FINE BLACK KID OR PATENT OXFORDS—With plain toes, turn soles and Cuban heels. Value \$4.50. This week's price is... **\$2.55**
- LADIES' WHITE CANVAS OXFORDS—Blue-put cut and plain toes. Special at pair... **\$1.35**

GET THE SUMMER ISSUE OF THE BUTTERICK FASHIONS

The finest and most complete fashion book ever published. Including a certificate good for one

Butterick Fashion All for 25 Cents

Silks and Dress Goods

Choose from these specimen underpriced specials—ALL GREATLY UNDER VALUE.

- Rough Silk Suitings**
Up to \$2.00 grades, 24 to 27-in., all Silk Crash Suitings, in plain and novelties, black, cream and colors. Suitable for coats, skirts, or full dress patterns... **68c A YARD**
- Black Taffeta**
36-in. all Silk, heavy Swiss Taffeta for coats, suits or drop skirts, black only. The \$1.25 grade. Sale a yard... **94c**
- New Spring Dress Goods**
40 to 46-in., strictly all wool, plain and novel, city Silk Etonnes, French Wool Voles, stripe serges, shadow novelties and gray mixed suitings, suitable for day or evening wear, regular values up to \$1.50... **95c A YARD**
- Black Sicilian**
56-in. heavy Silk Luster Mohair Sicilian for skirts, coats or full dress patterns. Black only. The \$1.25 grade. Sale a yard... **73c**

SALE OF CHILDREN'S WASH DRESSES

- 25c Each**
For Children's Wash Dresses, sizes 1 to 4 years, made of dark blue or red polka dot or figured percale or plain chambray, splendid 40c values.
- 75c Each**
For choice of a variety of pretty Dresses for Children, 1 to 5 years, all extra well finished, made of fine fast colored materials, including our best regular \$1.00 and \$1.25 grades.
- 99c Each**
For Misses' Dresses, sizes 6 to 14 years, in a variety of nobby styles, all made of fine and quality materials, regular at \$1.40 each.
- \$1.39 Each**
For choice of three exceptionally nobby styles in Misses' Dresses, sizes 6 to 14 years; these are regular \$2.50 Dresses; the sale price barely covers cost of materials.